

Parvey inaugurated as Lutheran Chaplain

The new Lutheran Chaplain for MIT, Constance Fern Parvey, is the fifth woman to be ordained in the Lutheran Church. The service of Installation took place Sunday in the MIT chapel.

Parvey was the first person to be ordained at Harvard University's Memorial Church. She will serve as associate pastor at the University Lutheran Church and as Lutheran Chaplain at MIT and Harvard.

The Reverend John Crocker of the Episcopalian Church and the Reverend Stanley F. MacNevin of the Roman Catholic Church participated in the service on Sunday. Professor Robert Halfman welcomed Parvey into her ministry at MIT. She comes to MIT to fill the position of Lutheran Chaplain left open a year ago when the Reverend Don Lee died.

"I would like my work to serve the aesthetic, the spiritual and the ethical dimensions of the community as a balance to the rational and analytic side which is the work of the Institute," said Parvey. She hopes to develop responsible leadership and serve as a presence that is a bridge between the past and the future at MIT which is future oriented.

Between 1953 and 1966, she served in the university ministry to students at Duke University in Durham, N.C., the Lutheran Ministry in Greater Boston, the University of California at Los Angeles and the University of Wisconsin, Madison.

Parvey has published several articles since 1966 and has been mainly engaged in research and writing until now. She has been executive producer of the Town

Meeting television series in Minneapolis-St. Paul, editor of the Harvard Divinity Bulletin, on the staff of the McCarthy for President campaign, and a member of the Department of the Church of the Harvard Divinity School working on the role of voluntarism in Third World Development.

Parvey will have an office at 312 Memorial Drive. She plans to divide her time 40-40-20 between MIT, Harvard, and the University Church in Cambridge.

CAB may end youth fare

By Storm Kauffman

The Civil Aeronautics Board (CAB) stated on Friday that it intended to cancel domestic youth and family discount fares.

According to a report in the *New York Times*, the special rates on family and confirmed reservation youth travel will be cancelled at "the earliest possible time" after it is determined how the potential savings can be best applied to lower airline fares in general. When standby youth fares will be discontinued has not yet been decided.

In explaining the reasons for its three to two decision, the CAB noted that such discounts discriminate against the general travelling public. He also pointed out that while designed to tap new markets by luring travellers who might not normally fly, the "total traffic generated is only minimally larger" than it would be if fares were cut across the board.

The discount plans

There are three special fare plans which are affected. One covers persons in the twelve-to-

High school women attend local residents' conference

By Storm Kauffman

Last Friday afternoon the Admissions Office and the Association for Women Students (AWS) co-sponsored a conference for female high school juniors and seniors from the immediate area — one hour's driving time — to familiarize them with MIT.

AWS representative Sandra Yulke '74 described the conference as "the first of a series of positive steps taken to bring a greater number of women to MIT." The AWS plans to hold more gatherings to further encourage women to apply to the Institute.

The meeting was attended by about 250 girls and 25 counselors who packed the Kresge Little Theatre at 1 pm to hear brief speeches on admission to MIT and career opportunities for women.

The program began with a welcome delivered by Barbara Nelson, Assistant to the President and Chancellor. She also discussed the flexibility that now exists in career schedules for both men and women in that the regimen of school-work-retirement need no longer apply. Many take time off to gain career experience or return to school after a period of employment.

Next, Director of Admissions Pete Richardson discussed college admissions. He suggested a timetable that should be followed in filing preliminary applications, etc.

Robert Weatherall, director of Placement and Assistant Dean of the Graduate School, analyzed the status of women past, present, and future. Using statistics, he tried to find trends in the roles played by women. Conclusions pointed to a greater proportion of female PhD candidates relative to male, an increase in the number of MDs and LLDs and rising appointment of women to professorships.

The program then moved into a panel stage. Each member briefly described her own experi-

ences and her personal view of the situation. Members of the panel were Associate Professor of Management Lotte Bailyn, Dean for Student Affairs Carola Eisenberg, Associate Professor of Urban Planning Mary Potter, Associate Professor of Aeronautics Sheila Widnall, and three students, Arleen Feng '73, Beverly Ross '75, and Lissa Martinez '76. The high school girls then submitted questions which the panel answered for an hour and a quarter.

Cynthia Bloomquist '70, Assistant Director of Admissions, told *The Tech* that she felt that the conference had been quite successful, especially in making the point that there are ample "opportunities for women to go on to careers and professions but still play other roles as well. I mean, they don't have to lose their femininity and can still be mothers and so on."

She admitted that the conference was the preliminary effort in a recruiting drive to bring women to MIT. No major increase in applications are expected from this one meeting, but it is hoped a favorable impression of the Institute will

be spread by those who attended. Bloomquist felt that the girls had been impressed. The admissions office hopes that the effects of the conference will be long-reaching and not limited to those who visited Friday.

After the conference, MIT co-eds took groups of about a half dozen girls on general tours of the Institute. Each girl had previously expressed a preferential interest in some area, and the tours were individualized to cover engineering, science, architecture, humanities, or management, and included a brief talk with a professor or grad student in the field.

Pat Callahan '75 led one of the engineering tours. She told *The Tech* that the tour included all the usual admissions office musts, minus the standard spiel. Instead, they discussed the history of the Institute. A primary aim was to give the Institute a human aspect and to try to contravene the somewhat common rumors of MIT being a cold and impersonal learning factory. The guides also encouraged the girls to apply to MIT if they had not already done so.

DNC chooses Strauss to succeed Westwood

By Norman D. Sandler

WASHINGTON (December 9) — Texas Attorney Robert Strauss was elected today to replace Mrs. Jean Westwood as chairman of the Democratic National Committee.

In a close vote, Strauss won a majority by only a three vote margin, shortly after Mrs. Westwood announced her unconditional resignation to the Committee.

The meeting today was the first meeting of the DNC since the Convention, when Westwood was appointed to the post of chairman of the Committee by Democratic presidential nominee

George McGovern.

As the Party split along ideological lines during the period from the Convention to the election, moderates and conservatives within the Party became disenchanted with Westwood, and threatened to oust her from the chairmanship soon after the November 7 election.

A resolution was introduced early in today's meeting to "declare the office of the chairman vacant," as had been anticipated, and was introduced as a special resolution.

The Strauss people then fought hard with the more conservative members of the Committee in attempting to pass the vacate resolution. Also lining up with the Westwood forces were supporters of other "candidates" for the chairmanship — Charles Manatt, chairman of the California Democratic State Committee, and George Mitchell of Maine, formerly Senator Edmund Muskie's presidential campaign manager.

Both Manatt and Mitchell, in their "stop Strauss" strategy, voted against the vacate resolution, betting on speculation that Westwood would win the vote of confidence and then resign. As anticipated, Westwood won the vacate motion by a vote of 105-100, only to come back to the meeting an hour later to announce her resignation.

In her resignation speech, Westwood referred to the party reforms as "One of our most prized possessions" and warned the members of the DNC against "closing the doors on the reforms."

Following an hour-long recess, the Committee voted to fill the vacancy of the chair, though the Westwood people attempted to put through a resolution appointing 80 members to the

if the trip lasts at least seven days and the flights are not taken during certain hours of peak traffic. The CAB promised it would make a critical review of the many other discount plans offered by the airlines.

Second time

Three years ago, the CAB considered similar proposals to drop youth fares but was deluged by protests from that age group. Support was found in Congress and the elimination plan dropped. Officials said that they realized that there would be some reaction this time but believed that the continued availability of discounts for the youth flying to Europe should ease the protest.

In 1969 the CAB explained its reversal as "justified in the interest of traffic development," but the statistics now available indicate that the special plans promote growth that "is too insubstantial to warrant acceptance of the discrimination inherent" in them. Continuation of the discount system would

(Please turn to page 2)

NOTES

Announcements of general interest to the MIT community will be published on a space-available basis. In general, they must be from the MIT community. Announcements of events for which there is an admission charge and announcements of political or religious activities will not be accepted.

Announcements must be short: No more than 50 words. Announcements must be typed and may be mailed to or turned in at *The Tech* office. They will not be accepted over the phone. The deadlines for NOTES are 5 pm Sunday for a Tuesday issue, 5 pm Wednesday for a Friday issue. These deadlines are absolute.

Since NOTES are published free of charge, *The Tech* reserves the right to edit, postpone, or refuse any announcement for any reason. In case of typographical error in an announcement, *The Tech's* only liability shall be to print a corrected version of the original announcement.

* Victor Weisskopf, Institute Professor and Head of the Department of Physics, will be the guest lecturer at Tuesday's (December 12) meeting of Topics in Art, Science, and Technology. The lecture will be held in 54-100 starting at 7 pm and will be open to the public.

* Application forms for Harvard-MIT Program in Health Sciences and Technology courses in the second semester now available in 16-512 at MIT.

* The Education Division Colloquium will present "Cross-Cultural Perspective on Intellectual Development" by Dr. Jerome Kagan of the Department of Psychology and Social Relations at Harvard University on Wednesday, December 13 at 12 noon in Room 9-150. The lecture is open to the public.

* A \$10 late payment fine will be assessed on all student accounts showing a past due balance for the Fall Term remaining unpaid as of December 15, 1972.

* Financial aid applications for the 1973-74 year will be available in 5-119, beginning Wednesday, December 13.

* The Admissions Office would like you to visit your high school during Christmas vacation or IAP. Your impressions of MIT can be helpful to students making their own college plans. The Admissions staff will be reserving the time from 2-4 pm on December 14 especially to talk with you about any questions you might have. We'd be glad to supply material and information. Stop by 3-108 and see your staff area representative.

* Wellesley-MIT Exchange, Spring 1973: Information and applications available in Exchange Office, 7-101, and Information Center, 7-111. Applications due: Thursday, December 21.

* Pot Luck Coffeehouse - Live entertainment every Friday and Saturday night, 8:30 pm to 12 m. Mezzanine Lounge of Student Center. Free coffee, cider and doughnuts. Performing this week: Friday: The Hobo Acoustic Band; Saturday: Susan Hanson, Cal Drake, and Martin Brooks. Last Potluck Coffeehouse till January 12. No admission charge!

* The Student Center Committee presents The Midnight Movie Series, every Friday night at 12 in the Sala de Puerto Rico. Admission Free! MIT or Wellesley ID required. This week: Phantom of the Opera (silent version). Last Midnight Movie of the term!

* Copies of the Spring Term Undergraduate Seminar Booklet are available for undesignated sophomores in Room 7-105.

* The MIT Auto Club will have a meeting Tuesday, December 12 in Student Center Room 473. Topics will include a road racing team (we have a Porsche 914-6 GT) and competitive activities for January and February. For further information call David Ziegelheim, DL 8-510 or 494-9110.

New board elected for *The Tech*

By Daneene Fry
Special to *The Tech*

The Board of Directors of *The Tech*, in an unwonted flurry of activity, elected David M. Tenenbaum '74 Chairman of the Board of Volume 93 of *The Tech*. The election, which took place Saturday in *The Tech's* smoke-filled offices, was the first activity this term of the Volume 92 Board, which promptly lapsed back into somnolence.

Paul E. Schindler '74 was elected Editor-in-Chief for the new year. He ran unopposed, winning narrowly on the 17th ballot. When asked what he planned to do differently from present practice, Schindler answered, "I'll try to be a little less competent."

Jack A. VanWoerkom '75 was elected Business Manager, edging

Stephen C. Shagoury in a hotly-contested election. Storm Kauffman '75 was elected Managing Editor over the protests of a faction avid to elect him News Editor.

Carol M. McGuire '75 was re-elected, and John J. Hanzel '76 and James R. Miller '76 elected, Night Editors. Hanzel was asked if there were any reason why he should not be elected, but he was unable to reply in time.

Neal C. Vitale '75 was re-elected Arts Editor, running unopposed. Also unopposed was Norman D. Sandler '75, who was elected News Editor. Though technically disqualified by not being physically present, Sandler was elected by a landslide as a suspension of the rules allowed him to qualify by being present

in spirit.

Roger H. Goldstein '74 and David H. Green '75 were elected Photography Editors. Green admitted, "Everything is my responsibility," after which Sandra G. Yulke '74 was re-elected and Fred H. Hutchison '75 elected Sports Editors.

David S. Gromala '74 was re-elected Advertising Manager, running unopposed. Timothy C.

Kiorpes '72 was re-elected Contributing Editor in recognition of his past exploits.

Sam, a beagle owned by outgoing Editor-in-Chief Lee Giguere, attempted to enliven the five-hour-long meeting. Outgoing Chairman Bob Elkin announced that *The Tech* would not pay for drycleaning the coats of the Board members involved.

DNC chooses Strauss to succeed Westwood

(Continued from page 1)

Party's reform charter commission before a new chairman was appointed, speculating that should Strauss be elected before the commission was appointed and ratified by the DNC, he would attempt to stop the appointment of Westwood's people.

As nominations opened from the floor, Mitchell, Strauss, Manatt and former Vice President Hubert Humphrey were all nominated in the race for the chairmanship, while New York's Joseph Crangle was not nomi-

nated, as many people had expected.

Mitchell was nominated by Iowa Senator Harold E. Hughes, who only two hours before had delivered a powerful, hard-hitting speech denouncing all those members of the Committee who supported Rep. Thomas Foley's (D-Wash.) resolution to vacate the chair. During that address, Hughes stated that the motion to vacate, as an "act of division, can not heal this Party."

In the vote for the new chairman, Mitchell captured 75 votes, while Manatt received only 25.



CAB plans elimination of youth, family fares

(Continued from page 1) undoubtedly, noted the CAB, require higher normal fares.

Youth fares are not nearly the bargain they once were. At the time of their inception, a youth could fly standby for only 50 percent. The airlines subsequently raised the rate to 67 percent, and then instituted the confirmed reservation system in hopes of encouraging travel. The CAB conclusion is that this program has not been successful.

Losing money

Airlines have run into much criticism over the past few years. Experts in the travel business contend that the fares are inflated, especially in the light of a majority of the flights running less than two-thirds full. Airlines profit on any flight that is more than 40 percent full, and flying the rest of the passengers is largely profit. It seems that fares could be reduced overall - as well as retaining the specials - to reach a greater traffic load without affecting profits detrimentally.

One of the biggest financial losers in recent years, airlines have also had to fight rate wars with the charter groups. The most recent result has been the

institution of scheduled "charter" flights which compete with those of the independents and are permitted by the CAB only because they are technically charters. A charter is customarily defined as a group of 20 or more, travelling together, booking part or all of a plane. Usually this must be done far in advance, without the convenience of regular departures. Independents have circumvented this regulation by forming groups of people who wish to fly to the same destination at about the same time and calling it a charter group. The scheduled airlines have now entered this game.

Other special rates were not mentioned by the CAB in its announcement and will likely be continued. This includes night coach.

AFTER THE FALL by Arthur Miller

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Douglas steps down as Humanities head

By Mike McNamee

History Professor Richard M. Douglas is stepping down from his position as Head of the Humanities Department, *The Tech* learned last week, to resume normal teaching duties.

Although the news of his resignation was announced to the department in a letter sent out early in October, the general public was not informed until last week, when several members of the Literature Section were overheard referring to Douglas as a "lame-duck" department head. Subsequent investigation by *The Tech* confirmed this rumor. Douglas asked to be relieved of his administrative duties last spring, and informed the department this fall. His successor has not been chosen.

Douglas, who has headed the department for the last ten years, has been instrumental in many of the changes in the humanities department over that period, especially in the core curricula. When asked for his reasons for stepping down, he replied, "It's not a job that one takes for a lifetime. The normal period for such appointments is about ten years."

Professor Harold Hanham of Harvard, who is replacing Professor Robert L. Bishop as Dean of the School of Humanities and Social Sciences this spring, will assume the duties of acting department head until a successor for Douglas can be found. This arrangement was designed to give Hanham enough time to become acquainted with the department before appointing a new head. Hanham will serve as Acting Head for no more than

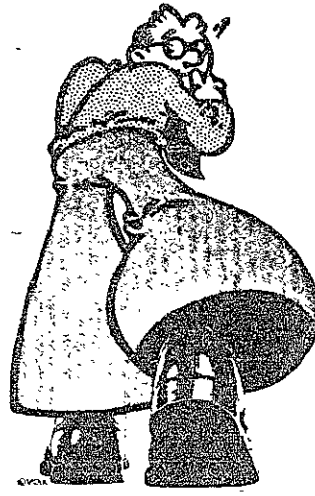
one year.

Provost Walter Rosenblith, when asked to comment on Douglas' resignation, told *The Tech*: "Professor Douglas, who has been chairman of the Humanities Department for ten years, asked to be relieved before Professor Hanham was picked for the post of Dean. As Hanham became acquainted with the department, he saw that he needed more time to see what the future and structure of the department should be. He thought this process would be accelerated if he took over the department for a limited time, no more than a year, while he picked Professor Douglas' replacement."

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Would you like to learn what a typical day is like in the profession or industry you are thinking of choosing?

A Day in the Life of.... IAP 342

MIT alumni in many cities across the country are volunteering to carry an undergraduate as an observer through a full day's activity to show what it is actually like to work in their fields. Career Coordinators in MIT Clubs are tabulating potential hosts by professions and industries to be able to arrange one day visits early in January in or near the hometowns of undergraduates.

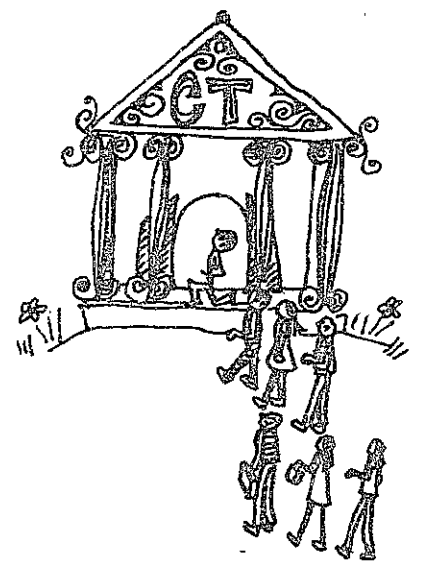
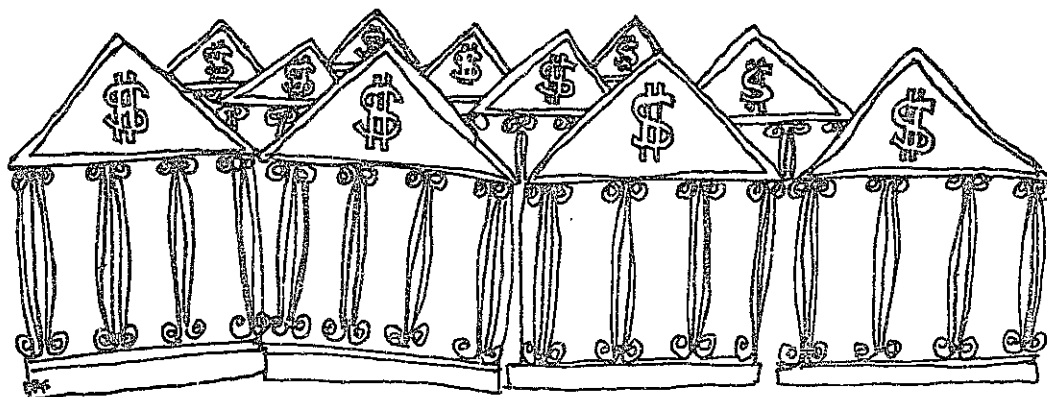
Act Now.

Visit a working professional after the Christmas holidays; submit: 1) Name and class; 2) Your campus address; 3) hometown or Christmas holidays address; 4) field of interest (profession, industry, or activity); and 5) whether a day during January 3-5 or January 8-11 is first choice.

This request will be forwarded to the Coordinator in the Club nearest your home (or Christmas) address. Your alumni host will write to you to set the date for early in January.

Submit request to:
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UAP Notes:

Getting to the light at the end of the tunnel

By Curtis Reeves

(The following article is a summary of UAP Reeves' remarks at the opening of a preliminary meeting on Thursday, December 7, to plan future General Assembly activities. -Editor)

During the months since my election in March, I have done several things to try to get people once again thinking about the Undergraduate Association.

More people voted in last year's strike referendum than have voted in any on-campus election in the last three years. Four hundred and fifty people attended the beer blast on the first day of classes this term. Well over a hundred people were registered as a result of our on-campus voter registration drive. Task forces have been set up to study the MIT-Wellesley exchange, housing, the humanities, and the Discipline Committee.

In addition, I have been working to establish a good relationship between the UA and the offices of faculty members and administrators.

I say these things, not to pat myself on the back, but to make these two points: first that even at MIT one person can do something to change his lot and that of his peers, second, and more importantly, that the potential of the Undergraduate Association is great, and is greatly ignored.

My message is this: many people have legitimate complaints about their lives at MIT, having to do with their courses or their dormitory rooms, or even having to do with their self-perception as students at MIT - now, at long last, something can be done.

This admittedly idealistic proposal is possible using our present resources, but

only if we decide, as a group, to stop complaining and start working. No one is going to hand us change on a silver platter. If there is going to be an effective lobby for the interests of the students, then it must be initiated and supported by the student body.

Let me emphasize now that such an attitude requires accompaniment by much hard work. But we must also look at the other side of the coin: hard work means little if it is misdirected, and many of our past efforts have failed to hit their mark, either because we were addressing the wrong problem or the wrong people, or because our efforts were too scattered.

What can we do? Obviously, we must start to work together, for not only is there strength in numbers, but also increased knowledge and rationality.

The Undergraduate Association is working as a unifying force. Clearly its success or failure lies in the hands of its leaders and in the hands of its constituency. Only by working together can either succeed.

For there will always be those who are interested in the operations of this committee or that club; without fail, a few will want to serve their fellow man by providing him with some necessary services. Governments are made for such people and are given respect according to the amount of service rendered to the public, as measured subjectively by the larger group. Some governments are successful because they invoke fear in their citizens: these, I say, are not well respected; and besides, our atmosphere here is hardly conducive to such a form of leadership.

Still, governments, even unfriendly ones, will exist because some groups of

people want them. This will be the case even if the only ones in favor of the governments are those who are directly involved with them.

If one agrees with this basic premise, and agrees further that the realm of its applicability extends to the MIT undergraduate student body, then this question follows: "How can the Undergraduate Association be used by students?" Notice that the question is not one of the best use, for that question has 4000 different answers, and limits the types of responses that might be given. The question asks for any type of use that could be made of the UA, especially since the organization claims to be sympathetic and responsive to the wants and needs of the undergraduate.

To answer the question: there are a large number of activities which the UA should sponsor or cosponsor. Broadly, they include social events, effecting changes in the curriculum and working to improve the student's general environment, including most naturally, his living conditions.

Just as important are the things that one should not try to use the UA for. The UA should never be used to pressure the administration. Rather, working with the administration (or the faculty) should always be conducted with tact and diplomacy. Students in no way own MIT and can, at best, only hope to influence those who make the decisions that the students have to live with - such decisions as housing and dining or curriculum. Certainly those who would like to see more student control over student affairs can appreciate the great and growing need for a level-headed approach to the problem of dealing with the bureaucracy that has come to be MIT.

And, lest we forget, we must guard against making those same mistakes that we see others around us making. In building a new government, it is very easy to envision committees and subgroups that will tackle problems with great zeal and rise to new heights of accomplishment. But unless we can remember to keep talking to each other, to keep relying on each other's talents, then all of our work is for naught.

For communication is the single most important problem facing us right now. Students cannot talk to faculty or administrators, or even to one another long enough to come to an agreement on even as basic a question as what the current issues are. If we can't say what the problem is, how can we solve the problem? I see our group, the General Assembly, as a way for us to get together to come to an agreement on today's problems and today's solutions.

We are not going to be a selective group. We will not turn people away simply because they are not members. For every student has an interest in our work; each one is, by right, a member of our organization. There's work to be done and until it is completed, we cannot afford to turn any willing partner away.

So let us start now to do that work, to make our lives, and the lives of our fellow students, a bigger part of the life of the MIT community.

Continuous News Service

The Tech

Since 1881

Vol. XCII, No. 54

December 12, 1972

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Letters to The Tech

To the Editor:

I wish to correct a statement made in the Ashdown Client Team Student Members' letter to The Tech published on December 5, 1972. They make the comment "In fact the Administration members of the client team refused to discuss any plans relating to the dining hall."

As an administration member of the client team, I must hasten to say that no administration member of the client team has "refused" to talk about anything. It is true that the architects have not brought to us any renovation plans of the Ashdown Dining Hall, since we all were waiting for a decision on the future of the dining hall. To imply, however, that the administration members of the team were somehow working to get the dining room closed is both false and misleading and is actually a reverse of the facts.

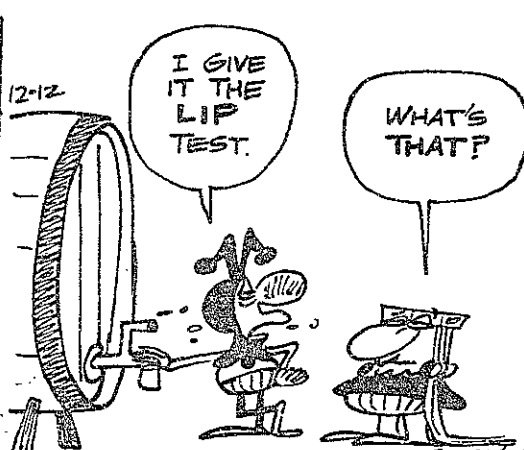
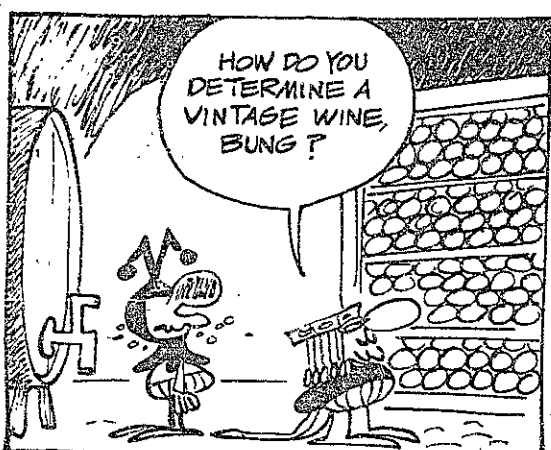
Sanborn C. Brown
Associate Dean of the Graduate School

To the Editor:

The MIT branch of Action on Smoking and Health has received administration encouragement to undertake an education campaign to make smokers aware of the effects of smoke on nonsmokers. You have helped us in the past by giving publicity to our aims, and we should like to ask for help again.

We need to know what are the effects of smoke on nonsmokers. Government-sponsored surveys indicate that, of the majority of the US adult population which does not smoke, about 75 percent would prefer a smoke-free environment. A smaller proportion finds smoke strongly offensive. Then there is a smaller

THE WIZARD OF ID



THE WIZARD OF ID appears daily and Sundays in The Boston Globe

Funding moves away from DOD research

By Bert Halstead

Government spending on research at MIT is on the upsurge but, at least on campus, there is a pronounced trend away from Department of Defense funded work and toward activities paid for by the National Science Foundation and the Department of Health, Education, and Welfare.

Research at MIT can be divided into three categories: research done at the Lincoln Laboratories, Draper Laboratories, and on campus.

The Draper Labs are in the process of being divested by MIT, and this process is scheduled for completion on June 30 of next year. According to Vice President for Research Albert G. Hill, the annual research volume at Draper is about \$60 million, of which 98% is funded by the federal government. Fully 70% comes from the Department of Defense.

At Lincoln Labs, virtually all work is government-funded, and about 90% of it is paid for by DOD money. Though the labs are operated under contract with the Air Force, "Lincoln Labs is a part of MIT, and there's no intent to change that," says Hill. "All its employees are MIT people," just like Division of Sponsored Research employees on campus. The main difference between Lincoln Labs and on-campus is that the Lincoln Labs may work on classified research, whereas on-campus workers may not. Research contracts at Lincoln Labs carry an overhead charge which helps defray general Institute expenses, just as contracts for on-campus research do.

The net volume of research

on campus (this is the total of all research contracts minus the volume of work subcontracted out by the Institute) is estimated at \$65.4 million for 1972 (see Table I). The dollar volume of on-campus research has been increasing in a significant growth in real research expenditures (after accounting for the effects of inflation). The portion of this work supported by the federal government has held fairly steady at about 85%.

It is estimated that in 1972, defense money will cease to be the principal component of the on-campus research budget for the first time in recent history. Next year, DOD will be outdistanced by both NSF and HEW as a contributor of research funds. There is definitely an underlying trend in this direction, but the comparison between this year and the next is complicated by the upcoming administrative transfer of the Materials Science and Engineering Center and the Francis Bitter National Magnet Laboratory from Defense to NSF. This transfer is due to the new Mansfield amendment, which states that the Department of Defense may not spend money on basic research, but only on work directly relevant to applications.

This transfer forms a substantial part of the projected decline in DOD research and the jump in NSF spending, but this is not the only factor involved. The RAND (research applied to national needs) program, administered by NSF, has also contributed to this jump, since it encourages research of the type that is becoming more popular at MIT (for example, the proposed energy laboratory). HEW

spending has also been increasing because of this new interest in research oriented toward social problems.

A very important effect of research on campus is to provide support for graduate students. Indeed, the interaction is mutual. Without a certain "critical mass" of graduate students, a department's program can be crippled. Sponsored research on campus helps by supporting a large number of research assistantships for students. Another important source of financial support for graduate students is an assortment of public and private fellowships and traineeships. In recent years the bulk of these have come from the federal government (see Table II), but the outlook here is grim.

According to Graduate School Executive Officer Ronald S. Stone, the only federal support that is likely to remain by 1975 is about 170 National Institute of Health traineeships and around 200 NSF fellowships (compared to approximately 850 federal fellowships and traineeships in 1968-69), and even these are sources of uncertainty. Fellowships are awarded directly to students by the fellowship-granting agency, and the student may take the fellowship money to whatever graduate school he chooses. So far, MIT has been fortunate. This year, 14% of the new NSF fellowship recipients chose to study here, outpolling even Harvard for the first time. We can only hope that NSF recipients continue to find MIT as attractive.

Traineeships are first awarded to the Institute, which then selects the students who will receive them. By 1975, virtually the only remaining federal support in this area will be the NIH traineeships. The elimination of this program, says Stone, "would be a real, real blow."

Unfortunately, this blow could be on the way. President Nixon's selection of Caspar Weinberger to be the new head of the department of Health, Education, and Welfare does not bode well. He is known as a "tough" budget-cutter, and if HEW, which funds the traineeships, should decide to terminate the program, it would die by attrition, the number of recipients decreasing every year, until after a couple of years it would cease to be a significant source of graduate student support.

Even so, graduate enrollment

at MIT is up 2% this year, from 3250 to 3328, contrasted with a 12% decline nationwide. This is in spite of no great increase in loan funds, and an increase in research assistantships which only just compensates for the decrease in fellowship and traineeship support. Stone attributes this to "our growing interest in interdisciplinary research." He has serious doubts about the next couple of years, though, because "present government sources just can't continue to support" the same numbers of graduate students.

Table II - Graduate Student Support
1971-72 1972-73 1973-74 est.

	1971-72	1972-73	1973-74 est.
Traineeships			
NIH	167	172	172
other US	190	118	70
other	90	94	0
Fellowships			
NSF	215	193	200
other US	43	20	7
other	49	49	NA

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Table I - On-Campus Research Volume (millions)

|          | 1969 | 1970 | 1971 | est. 1972 | est. 1973 |
|----------|------|------|------|-----------|-----------|
| LSF      | 6.0  | 6.5  | 7.2  | 10.8      | 16.8      |
| HEW      | 8.2  | 9.2  | 9.9  | 11.3      | 14.4      |
| DOD      | 16.9 | 16.0 | 16.7 | 15.3      | 12.8      |
| NASA     | 6.1  | 6.5  | 7.7  | 11.2      | 8.7       |
| AEC      | 9.3  | 8.7  | 8.1  | 7.3       | 8.3       |
| other US | 2.5  | 2.6  | 2.2  | 2.8       | 3.5       |
| other    | 6.8  | 8.6  | 10.0 | 11.3      | 10.8      |
| total    | 55.8 | 58.1 | 61.8 | 70.0      | 75.3      |
| net      | 54.6 | 57.7 | 60.3 | 65.4      | 73.6      |

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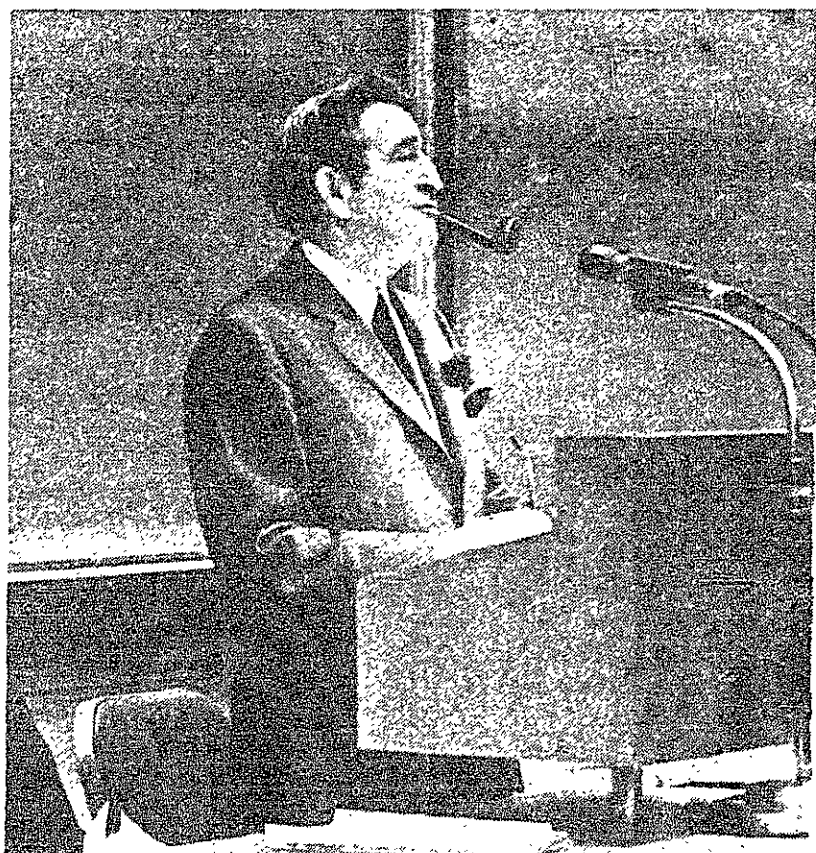
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## *Photos from the 'W' file*



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By Barb Moore

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This is what to do you must.  
For indeed sorry is Walker's plight.  
Who left his pedestal in thin-aided flight.

Go to a place where visitors fly  
And where family fares are not so high.  
A vaulted wall soon must you find  
For Walker'll be lost in one day's time.  
A new life he leads, one of shine and gleam.  
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For they will serve well as his stately porter,  
To return him home from his *locker*  
And assure a *Memorial* to Mr. Walker.



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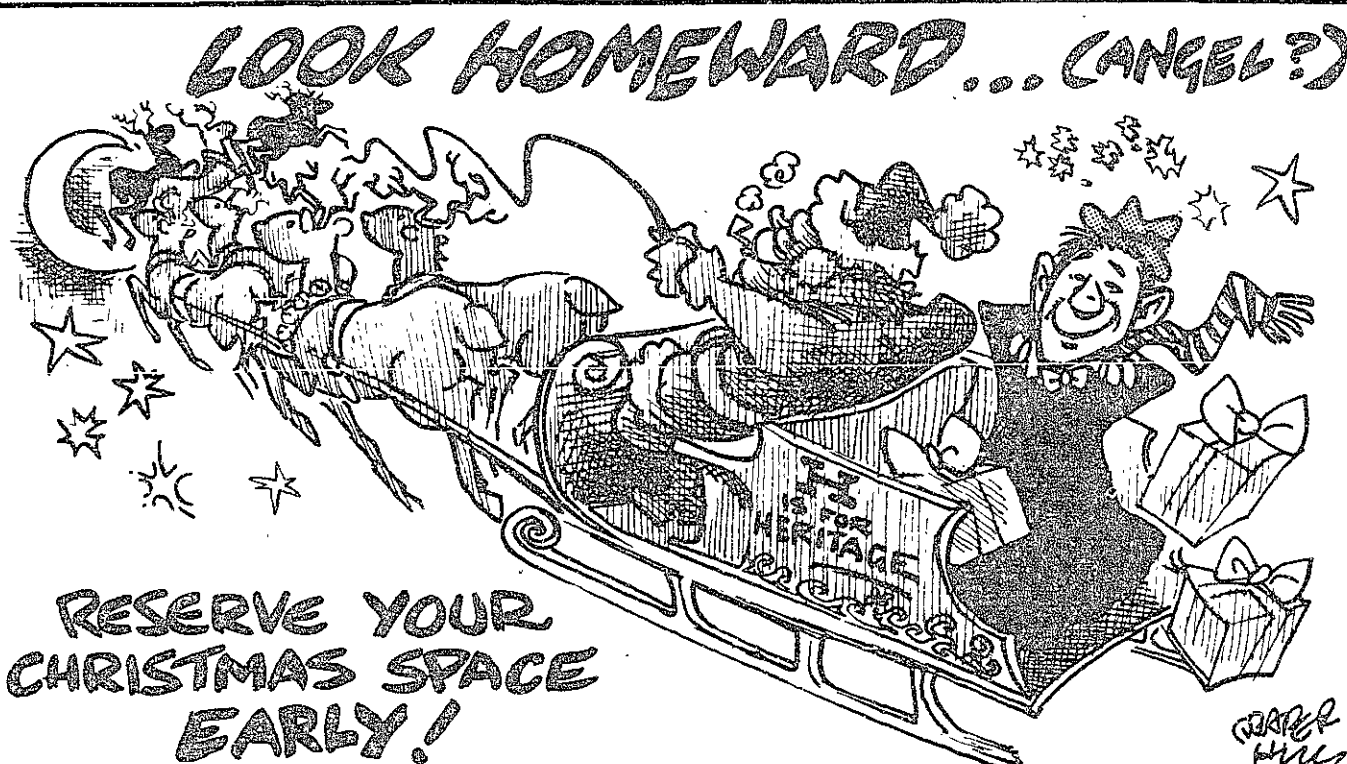
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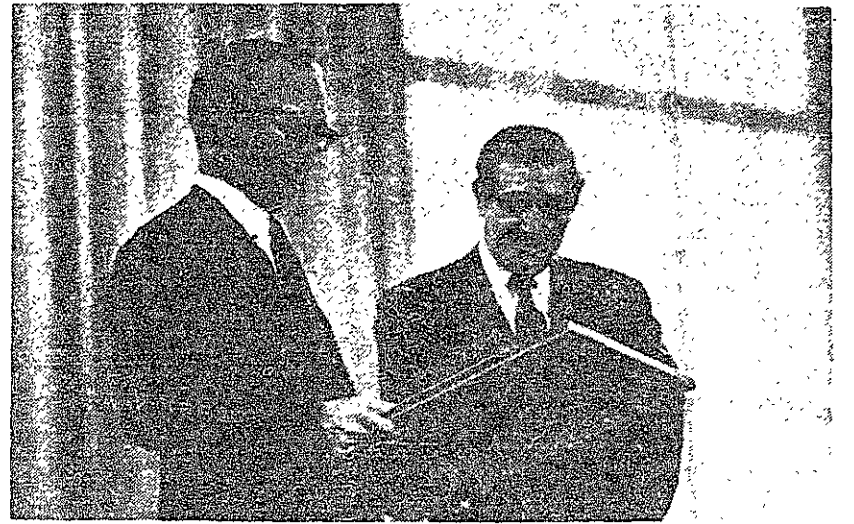
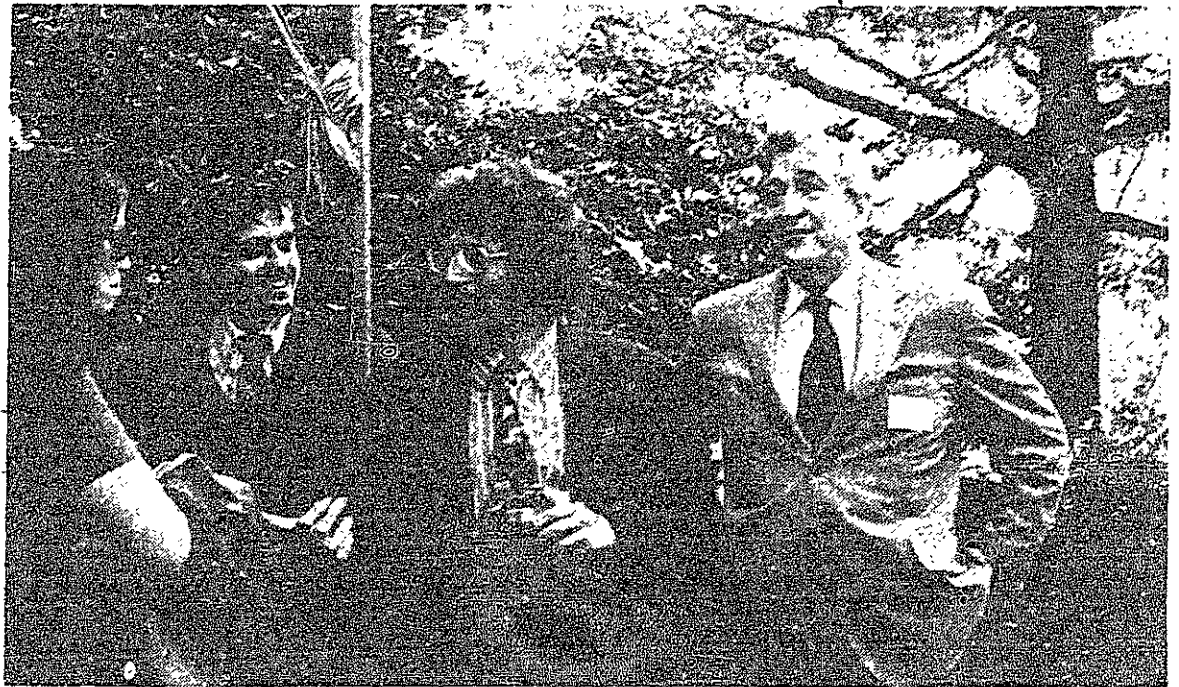
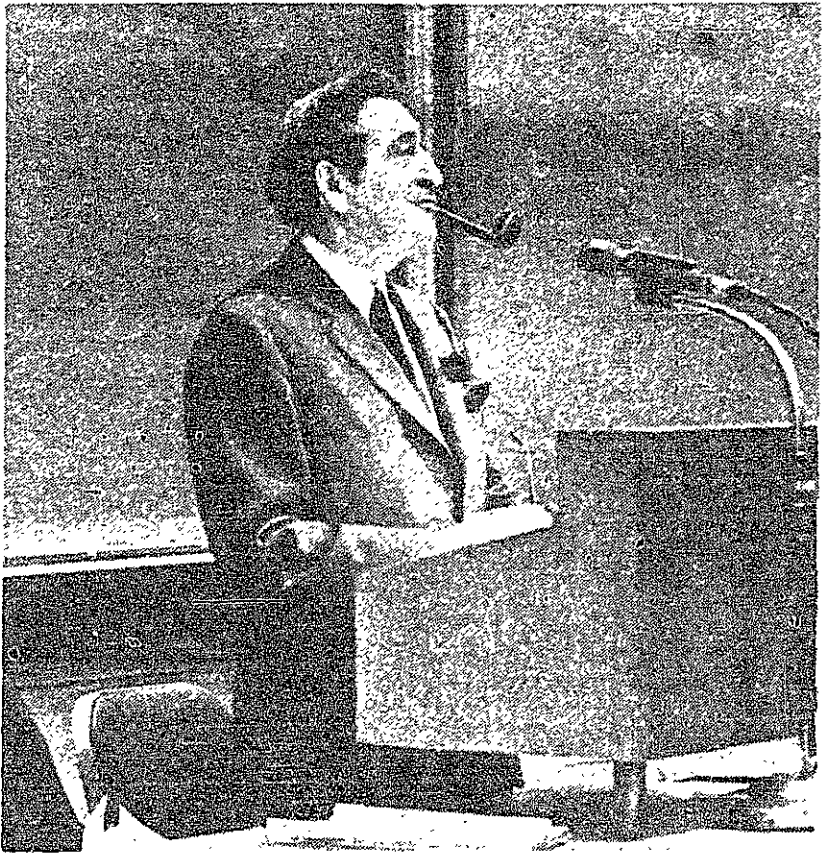
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For indeed sorry is Walker's plight.  
Who left his pedestal in thin-aided flight.

Go to a place where visitors fly  
And where family fares are not so high.  
A vaulted wall soon must you find  
For Walker'll be lost in one day's time.  
A new life he leads, one of shine and gleam.  
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To return him home from his locker  
And assure a Memorial to Mr. Walker.



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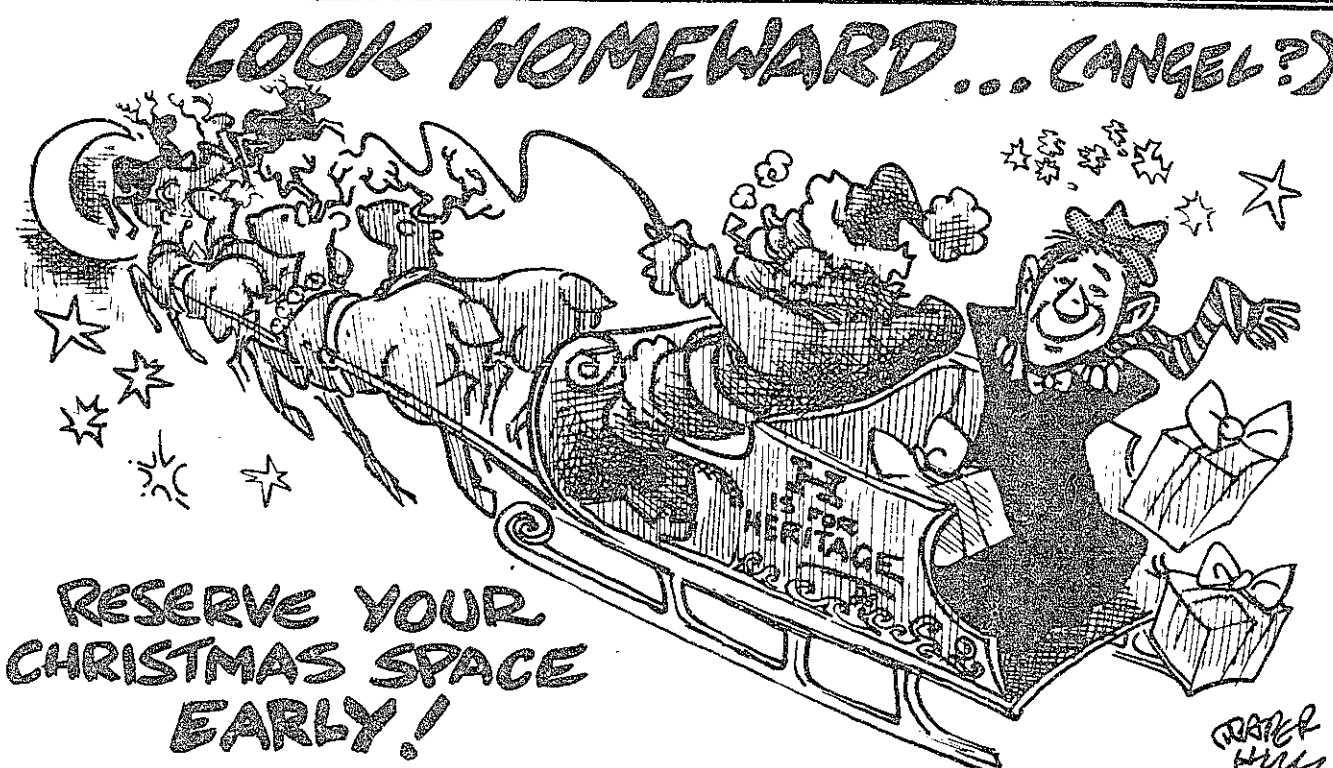
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# SPORTS

## Basketball: play uneven

By Lawrence David

The first week of the 1972-73 MIT basketball season saw MIT sandwich two poor games around a good one, losing the opener to Eckerd, 55-48, beating Norwich, 64-48, and getting bombed by Brandeis, 90-65.

In the Eckerd game, MIT led the St. Petersburg, Florida, team 29-28 at the half. The game had been a see-saw battle until there were about ten minutes left in the game. At this point, MIT had a 40-36 lead when Eckerd reeled off twelve straight points and coasted to victory.

The key to the game was rebounds. MIT had only nine offensive rebounds in the entire contest to Eckerd's 29. Captain Jerry Judson '73, off to a slow start, had one of the worst games of his varsity career, scoring only eight points, grabbing only six rebounds, and fouling out. MIT's one bright spot was freshman Cam Lange, who had 17 points and ten rebounds, the only double figures in either category for an MIT player.

On Saturday, December 2, MIT's team drove 190 miles to Northfield, Vermont, to play Norwich. At first, Norwich picked MIT's defense apart with the fast break and sharp outside shooting. However, MIT quickly regained its offensive and defensive poise to take a six-point lead at about the ten minute mark of the first half that they would never relinquish.

Hudson came back from the Eckerd game to score 20 points and haul down 16 rebounds, both game highs. Sange tore the nets, 17, and John Cavolowsky,

another freshman, contributed ten points and nine rebounds, eight of them in a strong second half.

MIT out-rebounded Norwich 50-38, and in addition to playing good defense, cashed 20 of 26 free throws to Norwich's six for eleven. The big factor was the improved defense that led to the final 64-48 margin.

The team slumped back to its Eckerd-game form in taking a 90-65 shelling on December 5 from Brandeis. The Waltham crew was without backcourt ace Mike Fahey, but the only effect this had was that Brandeis didn't score 100 points.

MIT quickly fell behind 10-2, regained the lead briefly and then fell permanently behind. MIT's backcourt failed to run the offense time and time again, committing numerous turn-overs that were quickly turned into Brandeis scores by their run-and-gun offense.

Brandeis had four men in double figures; forward Major Williams had 22. The Judges also outboarded MIT, 62-43, and took 92 shots from the floor to MIT's 62. MIT turned the ball over 28 times to Brandeis' 13. Not one MIT player hit double figures in rebounds (freshman Peter Jackson, the leading MIT rebounder, had only eight). Scoringwise, Lange, with 16, Jerry Hudson, 14 (only seven rebounds), and Cavolowsky, 11, were the double-figure men. But it was Brandeis' ability to penetrate the leaky MIT defense and to outrebound them that resulted in the 25-point whitewash.

The team lost to Trinity

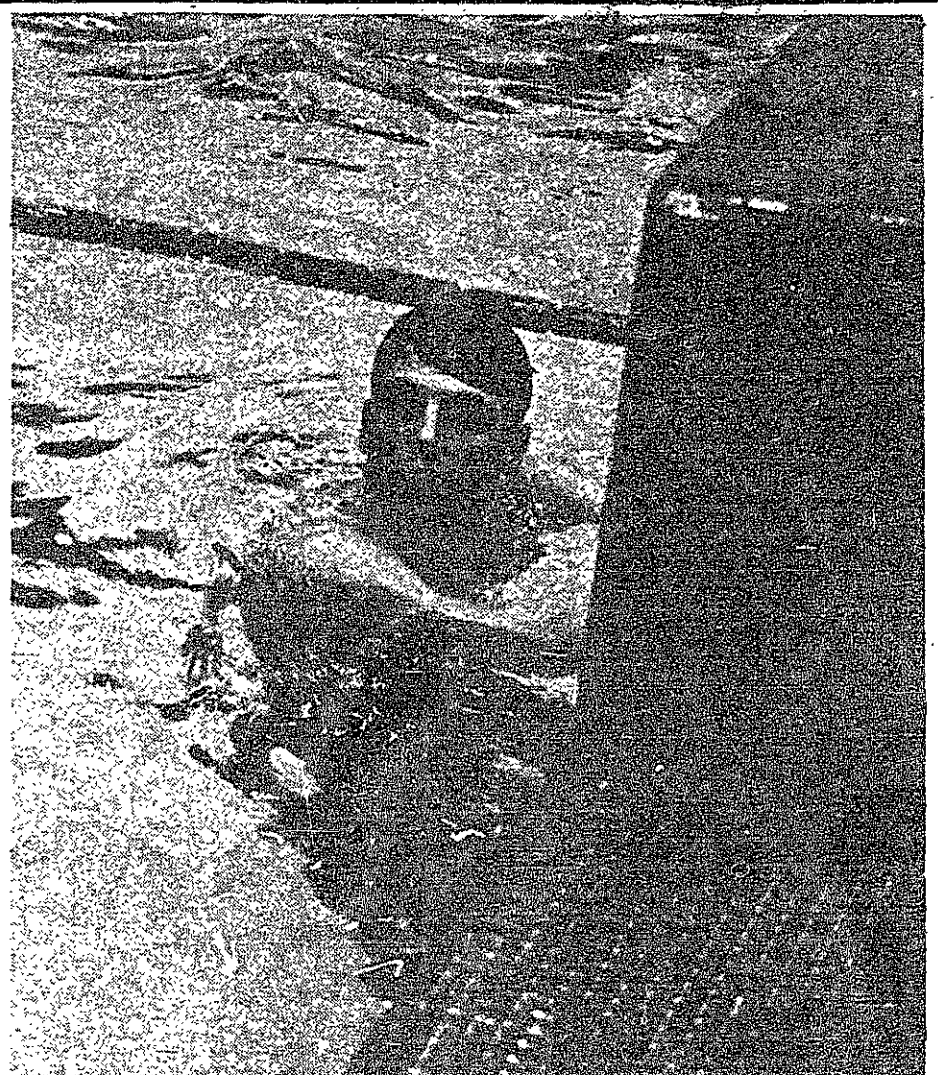
89-77 in Hartford on Saturday and had a home meet against Bowdoin last night. The team travels to Georgia in January for IAP action.

### Women's basketball

December 4, in the first game of the season, the MIT women's basketball team gained a 45-22 victory over Emmanuel College.

Although MIT held the lead throughout the match, the game was not as impressive as it might have been. The "dead eye" of Doris Lawson '73, was out of focus during all but the third quarter, and some of the passing was poor. The spirit of the game was reflected by the play calling, including "three touchdowns and a safety - let's go!" of Captain Ronnie Appel '74.

On the whole, however, it was a good start for the team, which will be improved as the players get more sure of themselves. Also promised in the future, are MIT's first male cheerleaders, who are rumored to be practicing for the girls' next match.



Peter Schulz '75, won the 500-yard freestyle, with a time of 5:34.8 last Wednesday night, in a home meet against Tufts. The final score was MIT 72, Tufts 39, as the swimming team recorded its first victory of the season. MIT won eight of the thirteen events, other winners being Dan Bethencourt '75, with a 11:22.1 in the 1000-yard freestyle (Schulz came in second), and team captain Ed Kavazanjian, with a 1:57.5 in the 200 yard free.

## Matmen win second; Wesleyan falls victim

By Mike McNamee

The MIT wrestlers boosted their record to two wins and one loss last Saturday as they blasted Wesleyan, 36-12. This was Coach Will Chassey's 101st lifetime victory.

The Tech grapplers got a quick 12 point advantage as Wesleyan was unable to put up wrestlers to face Ed Hanley '75 (118 lbs.) and co-captain Jon Backlund '73 (126 lbs.), who won by forfeit. Roger McKee '76 fell victim to his 134-lb. opponent, 8-0, before Joe Arthur '76 gave MIT three more points by winning 6-3 in the 142 lb. class.

The score was MIT 18, Wesleyan 6 after the teams split the next two matches; junior Rick Hartman (150 lbs.) dropped his

match 9-3, while co-captain Dave Kuentz '73 won at 158 pounds, 9-4. Wesleyan's hopes were crushed as Fred Linderman '75 pinned his opponent in 1:16, sealing MIT's victory with three matches to go. Dave Sebolt '73 kept the pinning going as he won by fall in the second period of the 177-lb. match, but the streak turned against the Engineers as Wesleyan scored their last points of the afternoon, when sopho-

more David Grasso was pinned in the first period of the 190-lb. class. The last match of the day was cancelled when the Wesleyan coach decided not to pit his heavyweight against Erland vanLidth de Jeude, who tips the scales at 340 pounds and is one of MIT's promising freshmen.



Jerry Horton '72, formerly an MIT varsity player, was the referee to drop the first puck for the beginning of the IM hockey season, November 27. Since the season began, almost half of all the games have had to be postponed due to poor ice

conditions caused mostly by the heavy rainfalls which have been so common in the last two weeks. IM play will continue through Saturday, and will start again January 11, and continue throughout IAP.

## IM Hockey: results so far

### A League

Ashdown 'A' 6 - Baker 'A' 0  
Burton 'A' 2 - LCA 'A' 2  
LCA 'A' 5 - Baker 'A' 1  
Ashdown 'A' 4 - TC 'A' 1

### B League

SAE 'A' 11 - TEP/BTP 2  
ZBT 1 - EC/Senior House 1  
PLP 3 - SAM/ATO 1

ASH 'B' 4 - TEP/BTP 1  
MacGregor 'A' 4 - ME 2

### C League

PKA 3 - DTD 2  
BTB 'A' 6 - Conner Five 0  
PSK 1 - TX 1  
TDC 8 - CP 'B' 0  
EC '4' 1 - Russian House 1  
Baker 'B' 6 - East Campus '2W' 1  
MITNA 9 - BTB 'B' 0  
PDT 'A' 4 - SC 2

NRSA 6 - PDT 'B' 1  
Russian House 5 - Baker 'B' 1  
PSK 7 - PDT 'A' 0  
NRSA 4 - DTD 0



MIT's squash team is trying to improve their 2-14 record of last year, and have already recorded one win this season. They beat Trinity 8-1, just lost to Dartmouth, 3-4, and were smashed by the national number one team Harvard, 9-0. Bruce Rhodes '74, shown above, is one of the young team members.

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